

## ABSTRACT OF THE DISCLOSURE

A motor has a rotatably supported rotor core and permanent magnets disposed at equal intervals at a plurality of positions in a circumferential direction of the rotor core. The rotor core has projecting poles formed at equal intervals at a center between each permanent magnet. Furthermore, an opening angle center line of each projecting pole conforms to a center line of an angle created by each opening angle center line of two adjacent permanent magnets. Additionally, each projecting pole is shaped asymmetrical to a line connecting a center of the projecting pole in the rotational direction of the rotor core and an axis center of the rotor core.